

## Packing Instruction - Domestic Alkaline and NiMH Batteries

### TYPES OF BATTERY

#### Alkaline Batteries

Alkaline batteries are a type of primary battery dependent upon the reaction between Zinc metal and Manganese Dioxide.

Another type of alkaline batteries is a secondary rechargeable alkaline battery, which allows reuse of specially designed cells.

Known as conventional dry cell or alkaline batteries which are used in the household.

#### NiMH Batteries

Nickel Metal Hydride Batteries are a type of rechargeable battery. The chemical reaction at the positive electrode is similar to that of the Nickel–Cadmium cell (NiCd).

NiMH Batteries are not subject to ADR, although they are classified and Dangerous for Transport under IMDG and IATA.

If NiMH are to be transported by sea or air, seek specific instructions from the Technical Department.

### SEGREGATION OF BATTERIES

#### Mixed Batteries

On site, chemist to separate all the different types of batteries between UN approved, sealable containers and to follow the packing instruction for that battery type. This includes separation between Alkaline and NiMH batteries.

#### Damaged/Faulty Batteries

It is important that enough cushioning material (vermiculite) is used. Place vermiculite in both the inner packaging and the outer packaging. Put damaged batteries individually in a sealed, plastic bag.

### PACKING DRY CELL/ALKALINE/NIMH BATTERIES

- Pack into plastic, plywood or fibreboard drums. Max. net mass 400kg
- If the above are not available, steel or aluminium drums may be used, however they will be lined with a non-conductive lining material. Max. net mass 400kg

Batteries should be packed to prevent short circuit. This can be done on the customer site by using non-combustible, non-conductive cushioning material (e.g. vermiculite) to fill void space between the batteries in the outer packaging to prevent excessive movement.

***If you are unsure on Packing Requirements, please contact one of the company's DGSA's for further guidance.***

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Responsible Person	Dave Smith	Status	Active

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## ISSUE AND REVISION DETAILS

Rev. No	Date	Details of change	Auth.
V1.1	05/06/20	Formatting and change of responsible person.	SS

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